

# SEQUENCE LISTING

<110> Altar, Anthony C.  
Laeng, Pascal  
Young, Theresa A.  
Charles, Vinod  
Bukhman, Yury  
Jurata, Linda

<120> GENE SIGNATURE OF ELECTROSHOCK THERAPY AND METHODS OF USE

<130> 03235/100M087-US2

<150> US 60/411,718

<151> 2002-09-18

<150> US 60/431,882

<151> 2002-12-09

<150> US 60/479,970

<151> 2003-06-18

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<170> PatentIn version 3.1

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 <212> DNA  
 <213> Rattus sp.

<220>  
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 <223> where n may be a or g or c or t/u, unknown, or other

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<210> 33  
 <211> 602  
 <212> DNA  
 <213> Rattus norvegicus

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<210> 36  
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 <212> DNA  
 <213> Rattus norvegicus

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 <212> DNA  
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 <212> DNA  
 <213> Rattus norvegicus

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 <212> DNA  
 <213> Rattus sp.

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<212> DNA  
<213> Rattus norvegicus

<400> 52  
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<212> DNA  
<213> Rattus norvegicus

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5028

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 <213> Rattus norvegicus

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 <213> Rattus sp.

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 <213> Rattus norvegicus  
  
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 <213> Rattus norvegicus

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<212> DNA  
<213> Rattus norvegicus

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<210> 79

<211> 1673

<212> DNA

<213> Rattus norvegicus

<400> 79

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 <213> Rattus norvegicus

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 <213> Rattus sp.

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 <213> Rattus sp.

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 <213> Rattus norvegicus

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 <212> DNA  
 <213> Rattus norvegicus

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 <212> DNA

<213> Rattus sp.

<400> 98

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<211> 281

<212> DNA

<213> Rattus sp.

<400> 99

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<210> 100

<211> 573

<212> DNA

<213> Rattus sp.

<400> 100

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<213> Rattus norvegicus

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<210> 104  
 <211> 684  
 <212> DNA  
 <213> Rattus sp.

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agtgtgtctg gatatttctgc ttgctcagtg gataacagtg cagctgaaca tgaggggctt	600
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<210> 105  
 <211> 3471  
 <212> DNA  
 <213> Rattus norvegicus

<400> 105	
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<210> 106

<211> 528

<212> DNA

<213> Rattus sp.

<220>

<221> misc\_feature

<222> (1)..(528)

<223> where n may be a or g or c or t/u, unknown, or other

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accagcatca attaacactt ttttctgtac ctgatgccac agtttaaaga aaaaacaaaa	300
caaaacaaaa caccaacaca cgactataca tcatcacagt tgggcagccc atgggtgagg	360
tttccacagc tactccacaa aggtacccat cctgcgtcag gagatccagc accttgccac	420
agactgcagc tcacaggtgc ctgtacactg aatattttgg tctaaaattt gacctttatg	480
ggatggggag agcnctcttt gttcttaaac ctggatatcc ttcaagtc	528

<210> 107  
 <211> 437  
 <212> DNA  
 <213> Rattus sp.

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 cttgataaagc agttcaactc tttgggcaaa gtcactagct cttatccgaa ttagaataca 180  
 ggacacagaa taagtcaaga caatccatga cttttttatt gagccttttag tttatgaggt 240  
 aaaggaaaag cagctctctt gaatacttta catagctgta ggaaaatatt tgagacttaa 300  
 agggagttac agggggattat gtttctcaaa agttgagatc aagtaaaca gctttaaatt 360  
 gtttaaattt tccagttgat ctttccttac aatagtaaca agctcgaatt agccacatta 420  
 ggtttttatg tttgcag 437

<210> 108  
 <211> 385  
 <212> DNA  
 <213> Rattus sp.

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 atcgatctgc tcgaattcct tctccatttc catggcgggg cgggacgact gcccaggttc 300  
 cctcggccgt ccgccgcgct aggccgcgtc gctccgcgtc tcgaggcccg tcgcccgcga 360  
 cctcgtgccg cctcgtcctc gtgcc 385

<210> 109  
 <211> 646  
 <212> DNA  
 <213> Rattus sp.

<400> 109  
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 tttaacacaa tgagataaac actgatagac tgaaggacta aggtttgcag ctactttatt 120  
 tacaagtata catttaacac aaggagataa aactgatag actgaagcct aactaatagt 180  
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 aatctgagag gggaggacct ctgacccaaa tgacatcggt caggttaaca gaacaaaaca 420

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<210> 110  
 <211> 484  
 <212> DNA  
 <213> Rattus sp.

<400> 110						
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caagccacgg	gttggtggggc	agctgtagag	aagagtgtaa	ctgagtccag	ccaaagcctc	180
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gcatgagcag	cagggtgccag	gtgtctccat	atgctgagct	ggctgtgctt	gcagcctcgt	480
gccg						484

<210> 111  
 <211> 711  
 <212> DNA  
 <213> Rattus norvegicus

<400> 111						
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accataactg	tcggcgtgta	cgaggcagcc	aagctgtctca	acgtagaccc	ggacaacgtg	180
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<210> 112  
 <211> 608  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(608)  
 <223> where n may be a or g or c or t/u, unknown, or other

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<210> 113  
 <211> 539  
 <212> DNA  
 <213> Rattus norvegicus

<400> 113  
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 cccgtgggtc tctgaagggg accccccac taatcggact gccaaatttc accggtttgc 480  
 ccagggatat tatagaaaat tatttgtatg attgatgaaa ataaaacaca cctcgtggc 539

<210> 114  
 <211> 292  
 <212> DNA

<213> Rattus sp.

<400> 114

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aaaaggcctg	gtttttctca	atacaccttt	aacgggtttt	aaattgtttc	atatctgggc	180
aagttgagat	ttttaagaac	ttcattttta	atttgtaata	aagtttacia	cttgattttt	240
tcaaaaaagt	caacaaactg	caagcacctg	ttaataaagg	tcttaaataa	ta	292

<210> 115

<211> 2299

<212> DNA

<213> Rattus norvegicus

<400> 115

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taaaaattaa gttaaaaaag	2299

<210> 116  
 <211> 1739  
 <212> DNA  
 <213> Rattus norvegicus

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gctgagcact gagcggcgct cagaatggaa gccatcgcca aatatgactt caaagctact	180
gctgacgatg agctgagctt caagagggggg gacatcctta aggttttgaa tgaagagtgt	240
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aaatcaattt aaatggcaaa tatatgttag attactggac ctctgtcctt gggttcagaat	660
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<210> 117  
 <211> 2376  
 <212> DNA  
 <213> Rattus rattus

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agagttgtgg	tttaaagtct	acactatttt	acctaataaa	gaacttattg	ctgatgttca	2340
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<210> 118  
 <211> 623  
 <212> DNA  
 <213> Rattus sp.



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ttttctaaag catgttttaa ctttcattta gttcatacta aaaataagct ttaaatagct 180  
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tggtcagaag tgtttcactt aaaaagcaaa caatccccag gaaatactga ataggaacca 480  
acaacacaag accagcttgt gttgtaattt aaagtctcaa aaacaaaaca acatcccata 540  
caccacacga taactctcaa tcatggctaa tcaactgggt ggtctataaa acttataccc 600  
aacactgacg gccagcacca ctc 623

<210> 119  
<211> 365  
<212> DNA  
<213> Rattus norvegicus

<400> 119  
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aaaataactc atgtttacat catatttata gacaagctgt acaataaata cataaatgca 120  
ttcacagtct gtgcttcagt catcctcctc ctctcttca tcgctgatca catacttctt 180  
atgcttttta ttggccttga catcgtcctc tgctttcctc ttcccagaag actcaccttc 240  
ctcgtcactg ttgagcttct ttgctttgag cagcctctga gctttgtctt cttccgagcc 300  
ctcgtcgtg tctgaggagt agattctggc ccgttcctcg cggatgcctc ctttgtagcg 360  
gtttt 365

<210> 120  
<211> 1095  
<212> DNA  
<213> Rattus norvegicus

<400> 120  
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ttaaattttg tgtgtagttg gatttttttg aagctgaagg tatccatctg cagacattga 180  
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gcttcataag gaacaagcaa gttgaataga gaagatagtg atcaataaga ggcatttagt 300  
gggtcttttta atgttttctg ctgcgaaaca tttcaagatt rattgatttt tttttttcat 360  
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aataaaatgt	ttaag					1095

<210> 121  
 <211> 516  
 <212> DNA  
 <213> Rattus sp.

<400> 121						
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gcttagtcac	actcaggtga	gggtgacagc	tcctcctgga	ttttgtttcc	atttattaaa	180
aaaaaaaaaga	aaagaaagaa	agaaaaagcc	acccccctcac	tcccagccca	ttcctcacag	240
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atgcagtgtc	tactgggctc	agaggggtgg	cctcaccac	ctgacatgag	tcctgattct	480
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<210> 122  
 <211> 484  
 <212> DNA  
 <213> Rattus sp.

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acgatcattg	taaaaataca	gtacgttata	tacatatttg	caccatcgac	tttcaactca	180
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aacctgtgat cctcctgccc ctctcctga gtgccgggat gacaggcgca ctaccaagcc	480
tggc	484

<210> 123  
 <211> 278  
 <212> DNA  
 <213> Rattus norvegicus

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tcttaagaag tgcgagagtgt ttttttttct tttttgcgga tttgcctaga ggtgccccag	180
gccccgctc ctagagaggg tgacctttct gtttctcctt ctcttgttc tccagagggg	240
caatgtgagg gtgatggagc cgggtccctt ctggtgcc	278

<210> 124  
 <211> 569  
 <212> DNA  
 <213> Rattus norvegicus

<400> 124	
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cacggaaata gtatacagag atatataaga accacaagga aaaaaaatc ccaagtcccg	180
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accgacaatg cctgcttaaa tgagctctga ctcacttcct catttccttt tttctgccag	480
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<210> 125  
 <211> 486  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(486)

<223> where n may be a or g or c or t/u, unknown, or other

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cacagtctgt acactaagaa cagtcctaag acggcatccg ctttctcctt cttcaatcag 180  
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actgtatctg tataagaata tataattttac ttatctctca gtcattttca gannacacgt 480  
atctct 486

<210> 126  
<211> 2452  
<212> DNA  
<213> Rattus norvegicus

<400> 126  
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 <213> Rattus sp.

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	ttggggtagt	ggttcacttg	agaatacaaa	atcttcagat	taactgatgt	ccaaaatact	180
	gtcttaaatac	atgagatcca	tcaattttta	gtattgtcta	gacctgcaaa	tagaattaca	240
	ttgtaaaatac	tttttcagca	tgtgttaaga	tgtatgtgaa	atTTTTTTgt	ttaaagtgtaa	300

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320

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<212> DNA  
<213> Rattus sp.

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aatctaccac gcttctgaaa tgttcagcta ttaaggggaa tgtcaatata tatatacagc 180  
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tgtgacctta cttcaaactg tgaaactgtg tgcagcagta ggatttggag tcttaaattc 360  
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<210> 129  
 <211> 1592  
 <212> DNA  
 <213> Rattus norvegicus

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 <211> 3043  
 <212> DNA  
 <213> Rattus sp.

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caaaagtgtc	agcgatgtgc	tgaaggctct	tgagatgaac	aaatattgcc	aaggagatga	660
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tctgttaaaa	tgagcgacac	atctcttttt	acaccttcac	ccctctacag	acagatttaa	3000
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<210> 131  
<211> 383

<212> DNA  
 <213> Rattus sp.

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 atgttgagtg gctcgagaac tcttgaggat gaggatgaga gacaactttt taggtggtgc 180  
 aaggatggag gattaagact ggaggtcaca gcatgtgtag cacaaggcaa tgggactcat 240  
 aagcaggatg gtaagcagcc tcagcatctg gtgatcagat cttcaggctt ggctatgggc 300  
 aatattactt ctgctttgtc ttctgctggt atggtgatgg agtggcagtt ggggggcagg 360  
 gctcatgaac aacaggctgg cat 383

<210> 132  
 <211> 672  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(672)  
 <223> where n may be a or g or c or t/u, unknown, or other

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 tgccaatatt ggtggtgttt tcacccagcc cctaccagct gtccctttct atccctccta 240  
 actggacatt attgagcttt ctccacgagt aatgctttcc cacacaaggc caccagctc 300  
 aagaactttc cttccaggga cggttcagc caagtacctc aatgttaact attaaactaca 360  
 gcaacaacca cccagagact gtggtttggg ggtactgccc acccccagga gctgccaaat 420  
 gtccaggcta ctgtgttcta accaaataga aacagagctc tacacttcag ttccacaacc 480  
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 cacacgaggc ctccaccctg cagacttaca gaaggccggg atatggtttg tgctccttcn 600  
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 tcatgccgaa tt 672

<210> 133  
 <211> 367  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(367)

<223> where n may be a or g or c or t/u, unknown, or other

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ctaccgtcag ctaccacac acacaaacag cagcttttca atagagtctc ccaggcctcc 180  
ctcaccaatg ctaaggactt aaaaaataaa aagtacagca ggctgcacat gctctctcac 240  
ttcctcaciaa tacacggata gctgtacact gaggtccatt gtacaggcat ctacagagta 300  
agtacataaa atatatttgt aaaattcttc cacgcacgat cctacaatgt ctctcctcgc 360  
aggatac 367

<210> 134  
<211> 2225  
<212> DNA  
<213> Rattus norvegicus

<400> 134  
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cttttctggt gtgtttggat attccatgtt tgttttggtg ggagaattgg gctccgatga 180  
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tggcacgggg acacctaaag tcacactttg tgcttcagac atactttctt tctctatttc	2160
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aaaaa	2225

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 <211> 467  
 <212> DNA  
 <213> Rattus sp.

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taaaacggaa ggcagccttc ctagaatctc aatgcattgg cttaggagta agcaatactg	120
aaaaaagtta aagcatctgt tggcctcttt cccatcacag ggtacaacaa cctctttag	180
tcagcttcct ctacagtagg ctctaaagag tttagcatga accaagatgg gaataatttg	240
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<210> 136  
 <211> 822  
 <212> DNA

<213> Rattus norvegicus

<400> 136

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gccgtgaaga agattgtgct gagtgacgca cgaagcatga agcacgcgct ccgagagatc	120
aaaatcatcc ggcgcctgga ccacgacaac atcgtcaaag tgtacgaggt actgggaccc	180
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tacatggaga ctgacctggc atgcctgcta gagcagggca cgctgaccga ggagcacgct	300
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ggggatttcg ggctggccag aatcgcggac cagcattact cccacaaggg ttatctgtcg	480
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gtagtgcggg aggaagacaa ggaggagctg ctcagggtga tgccgtcctt tgtcagcagc	720
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<210> 137

<211> 512

<212> DNA

<213> Rattus norvegicus

<400> 137

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tatttttatg tacacctttg attcttacat tacaacagaa gtcacatggt taaaaatacc	180
cactccttaa aacatagtc tttgtcaatat tttgtttaca gtacagatcc tgaagacaaa	240
cacttgacta tattaagatt tattagtctg aaaacagaat gtaggatatt ttgtatatac	300
cgtcggtata tactgaattc tggcagcaaa gtgtttatga gaaaatttca attttccctg	360
gtagtataat ataaaggcca atctacttct cacttgttac aactatattt aactgaatta	420
tggtttaaaa tcacaaagtg ataaaatata aatacaaaat actaagaaaa gtttaacata	480
taaagagaaa gtgtcttatg tattgtaatt tt	512

<210> 138

<211> 451

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<222> (1)..(451)  
 <223> where n may be a or g or c or t/u, unknown, or other

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 acatctaaaa gtagatgggg gcttactccg gcttaggaca tggctctcttg tgtacactca 180  
 atatgcacac ccagtaacac agacatagac cagagagggt ggctcccagg gcctcctggg 240  
 ctcccagcac caatgggaaa accttgccca tacacagggt agttcctgac aactggagaa 300  
 cagagagatg caggccaggg ctccgcccc cccaccgcag ggccccgccc acctctggag 360  
 cagctccacc tttgttcacc ctggaaggca tctctttgga ttgcaaatac ttttaattcac 420  
 agaggggatg ggggtangggc tggggtggtg t 451

<210> 139  
 <211> 3208  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(3208)  
 <223> where n may be a or g or c or t/u, unknown, or other

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 taattgttga tggtcaagaa gagaaagata cagatgctga agatggatct gaagttgatg 180  
 atgaaaggcc agcttggaac agtaagctgc aatacatcct ggcgcaagtt ggattttctg 240  
 taggtctggg gaatgtgtgg cggttcccat acctctgcca aaagaatggc ggtggtgcat 300  
 atcttttgcc atatttaata ctacttctgg tgataggaat tccactcttc ttcttggaac 360  
 tttctgtggg tcaaagaatt cggagaggca gcatcggggg ttggaattac ataagcccta 420  
 aactgggtgg gattggattc gcaagctgtg tagtgtgcta ttttgtggct ctctactaca 480  
 atgtcatcat tggctggaca ttgttttact tttctcagtc ttttcaacaa cctctccctt 540  
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 ctgaaagtgg gggcttaaac tggaagatga ctggctgcct gctggctgcc tgggtcatgg 720  
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cgttttccag ttacaacaag agagacaaca actgccactt cgacgctgtc ctcgtgtctt	1020
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gaggaagagt cctgaaagaa cccgtgaact tagacggaga tgatgcaagc ctcattcacg	2040
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atgcagactg catttttctt atgccgtgtg cctaataaac ctacttaata tttattgtgg	2940
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aggactctta agtgctgggt tgaaaacttg aagcaagata gcatctgatt tcatatgttt	3060
ctgttttgct tcattttatg caaatacgaa ttcttttttt taagtgttg ttaaaactgt	3120
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aaaaaaaaaa aaaaaaaaaa aggaattc	3208

<210> 140  
 <211> 436  
 <212> DNA  
 <213> Rattus norvegicus

<400> 140	
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caatttctgg aacagagcac aaggtattac actgagttag agcatctcca atgcttctgt	180
caacacgctt ccatctcagc gctgcagagc tggaggagag ttggtatggg agcgaggtag	240
gaagagttag gtggtagtga ggcagctggg tgactataag acagaatcaa cgggccctct	300
ggagtactga gctcgttcta tacattgggc atacataatt gcatgaatcg gcacacatga	360
taaaatagca cgaagccaca tacatactgt tccaattaac aagtccttgc ttttgatatg	420
ttacaccata tgttct	436

<210> 141  
 <211> 636  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(636)  
 <223> where n may be a or g or c or t/u, unknown, or other

<400> 141	
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acaacaggca tgtcactgaa atactaggat tttttttttc aatacgatca gttagaaata	180
cacacaaatt acttaaagaa agaagaggag gaagagggga agagaaagag aaagagaaag	240
agaaagagaa gaagaggcca gacaggagct cagccacttg tccaagagca gctgggtccc	300
ccaacaggc tcaaccgctg aggggcctga cgtagctat cagcccctga cctgctcaga	360
caacacacgg ttgtacaaca tgggtctagt accggcaaaa ggaagaagcc accccacaga	420



cacacatata caciaagctg attgatactg gattttacaag cacatcccgt cacacggcaa	480
gaccaagaca gatcggggta ggggtgagaa gacaccaana cacaggaatt tcaaaggcca	540
aacacctgtc cataaaggga ggcgaggac gagaaatgcc gtgggagaag gggagaagga	600
tgaacagatc tctgtagcca aaacagaaca gagtgg	636

<210> 142  
 <211> 437  
 <212> DNA  
 <213> Rattus sp.

<400> 142	
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cgtagggcag caggatgagg tgattaaatg aataatgtta cattgtcttg gggggaaact	120
aggttttcag aattacagt tctggaattt tagtgcttaa aaaaaaaaaa catatttttag	180
gaggaataag gaactggtag aacaaggaaa tggcttaact aatctgagtt aagagcacct	240
ctgagggcca catggtctgt aatcacagct ccagaggctg aaaaacagga gatctacagt	300
ttaaggctcag ccatggctag gctgaatctg ttgtctgttt aaagagcacc aagaaattcc	360
ctggtcaaac gagagcttct ggtgaaagac taaaggaatg gcagtaagga catagaagtg	420
gctccttgcc tcgtgcc	437

<210> 143  
 <211> 592  
 <212> DNA  
 <213> Rattus sp.

<400> 143	
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cgaatcgaca gtgatggaga cggccttggt actactgagg agctgaaagt ttggatcaaa	180
cgggtacaga aaagatacat ctacgataat gtggctaaag tctggaagga ttatgatagg	240
gacaaagacg aaaagatctc ctgggaagaa tacaagcagg ccacctatgg ctactacctg	300
ggaaaccctg ctgaattcca agatagctct gatcatcaca cttttaaaaa gatgctgcca	360
cgggatgaga ggaggtttaa ggcttcagac ctcgatggcg acctgacagc tactcgggag	420
gagttcactg cttttctgca cccagaggag tttgaacata tgaaggagat ttagttctg	480
gaaaccctgg aggatatcga caagaacggg gatggttttg tggaccagga tgagtacatt	540
gcggacatgt tttctcacga ggacaatggc cctgagccag actgggtttt gt	592

<210> 144  
 <211> 3027  
 <212> DNA  
 <213> Rattus norvegicus

<400> 144  
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aggggtatat tcgagttgca aaatggcggc cccgagcgct ctcttcagcg ttcagtagca 120  
gcttcaggct gagcggatgt ctcttctcct cagtttcgga ctgagagaca cgcggtcccc 180  
tactcctgct gatcacgaag tccttgaagg cgctcaacgc accggaatct cccagcggcc 240  
gcgaccgccg cctcggccct gctctccgcg gcgccggaac tcagcgtgat ctgcggcggc 300  
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gcggaggagc ctttaaagggt ttcaaagggt tggttgtgcc ttctggagga ggagggtttt 540  
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gcaatagcag caatcagccg ccctcctccg gccagcctc cagtacctcc tgcactggga 780  
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gccaaataaat cctttcagtg tgtcgaagct gttctccctt cctaagaact aagcaaaata 1920

cattggagtg	aaaagtttgg	gaagatTTTT	taatgtcgat	tcattgagta	aactaaccta	1980
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aaaaaaaaa	aaaaaaaaa	aaaaaaa				3027

<210> 145  
 <211> 535  
 <212> DNA  
 <213> Rattus norvegicus

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gttcggagga	catggggact	acagtcaatg	gagatgtgtt	tcaggaggct	aacgggcctg	180
ccgatggcta	cgctgcgatt	gcccaggcgg	acaggttgac	tcaggagcct	gagagcatcc	240
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aatccaagga	ggagaccca	ggcacagagt	gggagaagg	ggcccagctg	tgtgacttca	480
accctaagag	cagcaagcaa	tgtaaagacg	tgtcccgct	gcgctcggtg	ctcat	535

<210> 146  
 <211> 2046  
 <212> DNA  
 <213> *Rattus norvegicus*

<400> 146  
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 gcgcagctgc tgccatggcg cagaccctgc agatggagat tccaaacttt ggcaacagca 180  
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 gtagcacgcc actgcccctt gtgtcacggg tcaagacaga acaggagttg gactcggtgc 660  
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 aggagggcac agatgagcag taccgtcaga tctgcaatat gtataccatg tacagtatgt 1020  
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 gcttcgagac agccagccac gatggcgagg ctggcccttc agctgagggt ctccagtaac 1680  
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cacctacctg gtcacgatct actgtctgtc cctccccaga acctgtgagg ggggtgttcag	1800
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<210> 147  
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 <212> DNA  
 <213> Rattus norvegicus

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<210> 148  
 <211> 3822  
 <212> DNA  
 <213> Rattus rattus

<400> 148	
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 <212> DNA  
 <213> Rattus norvegicus

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543

<210> 150  
 <211> 410  
 <212> DNA  
 <213> Rattus sp.

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 ccacaaacct caataaattc ctatattaca aattgggcta atctatagac ccatagatga 240  
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 <212> DNA  
 <213> Rattus norvegicus

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 <212> DNA  
 <213> Rattus norvegicus

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